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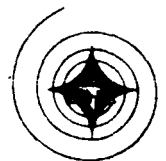
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MOCKUP NUMBER 17, SERVICE MODULE AND
ADAPTER INTERFACE SPECIFICATION
PROJECT APOLLO SPACECRAFT
(Unclassified)

NAS 9-150

28 February 1962

4.5.2.7



Approved by



J. W. Paup

Vice President and Apollo Program Manager

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1. SCOPE

1.1 Scope. - This specification covers a Service Module and Adapter Interface Mock-Up of the Project Apollo Spacecraft.

2. APPLICABLE DOCUMENTS

2.1 General. - The following documents shall form a part of this specification.

Government Documents

Bulletins

ARDCM-80-1
Volume 1

Handbook of Instructions for Aircraft
Designers

3. REQUIREMENTS

3.1 Mock-Up Arrangement. - The Service Module and Adapter Interface Mock-Up shall consist of simulated mating surfaces of the service module and adapter with mechanical and electrical connections.

3.1.1 Service Module Interface. - The service module interface shall accommodate the mating surface, mating hardware and electrical connections of the adapter. The service module interface shall maintain critical dimensions and tolerances.

3.1.2 Adapter Interface. - The adapter interface shall accommodate the mating surface, hardware and electrical connections of the service module interface. The adapter interface shall maintain critical dimensions and tolerances.

3.2 Construction. - Materials and processes used in the construction of the mock-up shall provide an inexpensive mock-up of the service module and adapter interface. Materials used shall support the required installations, and shall withstand handling and transportation. Assemblies, parts and components of the mock-up shall be rejected items of equipment, prototypes or reasonable facsimiles, fabricated to the size and shape of the actual equipment. The mock-up configuration shall be as shown on Figure 1. ARDCM-80-1, Volume 1 shall be used for guidance and reference material in the design and construction of the mock-up.

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3.3 Performance. - The mock-up shall be designed and constructed to demonstrate:

- (a) Compatibility of mating surfaces and parts
- (b) Separation characteristics

4. QUALITY ASSURANCE PROVISIONS (Not Applicable)

5. PREPARATION FOR DELIVERY

5.1 General. - The mock-up shall be used at the Contractor's facility.

6. NOTES

6.1 Intended Use. - The mock-up shall be used to aid S&ID Engineering design evaluation.

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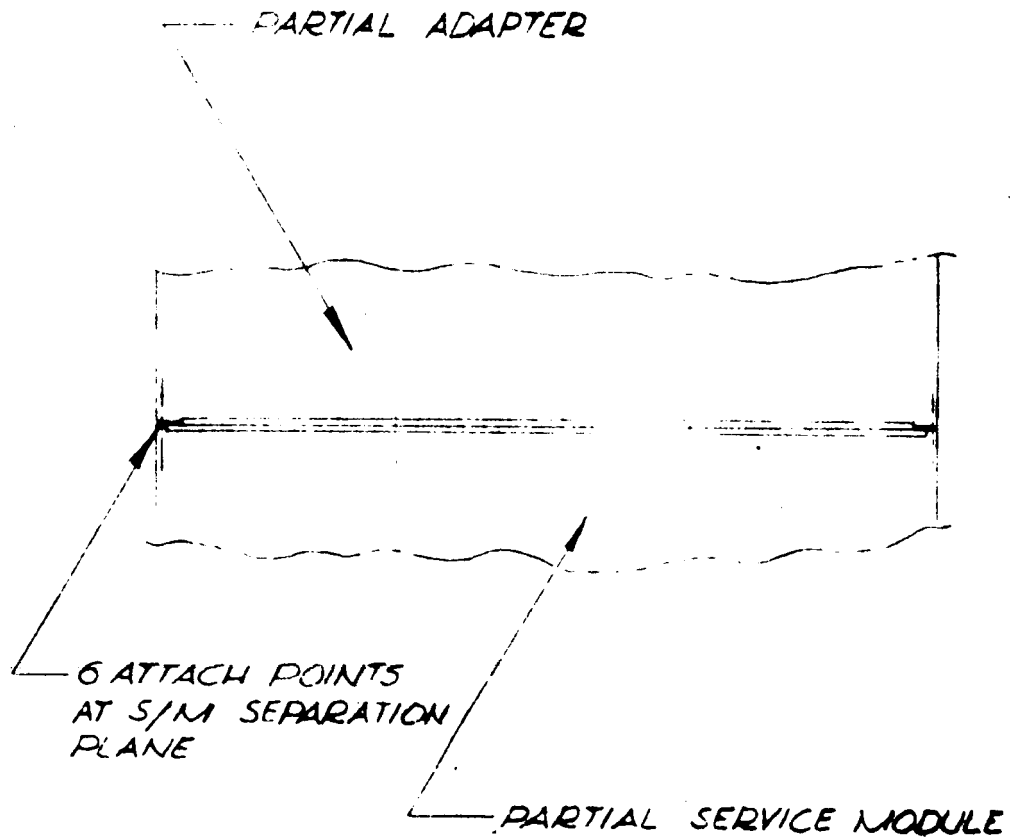
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Figure 1. Partial Service & Adapter Mock-Up

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~~CONFIDENTIAL~~Appendix I-AContractor-Furnished Property, Contractor-InstalledPart No.Description

Umbilicals

QuantityItem No.

1

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